

AMENDMENT

IN THE CLAIM

Please amend the claims as follows.

Claim 1 (Currently Amended): A computer readable medium containing a database accelerator, comprising: a primary system that holds data records having data items including primary keys, primary blocks that store the data records in the order of their primary keys, and a location table that contains in a contiguous region location table entries containing the addresses of the primary blocks;

a frond location table having frond location table entries in a contiguous region indicating the blocks identical to the location table entries of each primary block; and

an accelerator system that holds a the frond location table that contains in a contiguous region frond entries are updated synchronously or asynchronously according to the updated information issued by the primary system when the location table entries containing the addresses entry of the primary blocks is updated.

Claim 2-5 (Canceled)

Claim 6 (Currently Amended): A database accelerator-The computer readable medium according to Claim 1, comprising:

a primary system that holds data records having data elements including primary keys, primary blocks that store the data records in the order of their primary keys, and a location table that contains in a contiguous region location table entries

containing the addresses of the primary blocks;
an accelerator system that holds a frond location table that contains in a contiguous region frond location table entries containing the addresses of the primary blocks; and

~~means of accelerator system access by wherein a primary key that performs a binary search on the frond location table and accesses blocks on the primary system based on results indicated by frond location table entries.~~

Claim 7 (Cancelled)

Claim 8 (Currently Amended): A computer readable medium containing a database accelerator, comprising:

a primary system that holds data having data items including primary keys and alternate keys, primary blocks that store the data records in the order of their primary keys, alternate-key blocks that stores the alternate-key entries made up of alternate keys and primary keys in the alternate-key value order, alternate-key blocks that include alternate-key entries, and an alternate-key location table that contains the alternate-key location table entry in a contiguous region alternate-key location table entries; and

an accelerator system that holds a frond alternate-key location table that contains in a contiguous region the frond alternate-key location table entries indicating alternate-key location table entries of each alternate-key block and the identical alternate-key block in the contiguous region, where said alternate-key frond location table entries, when the alternate-key location table entry of each alternate-key block is updated, is synchronously or asynchronously updated based on the newly updated information sent from the primary system.

Claims 9-11 (Canceled)

Claim 12 (Currently Amended): A database accelerator The computer readable medium according to Claim 8, comprising:

a primary system that holds data having data elements including primary keys and alternate keys, primary blocks that store the data records in the order of their primary keys, alternate key entries made up of alternate keys and primary keys, alternate key blocks that include alternate key entries, and an alternate key location table that contains in a contiguous region alternate key location table entries;

an accelerator system that holds a alternate key location table that contains in a contiguous region alternate key location table entries; and

means of wherein accelerator system access by the alternate key that performs a is performed by the binary search on the frond alternate-key location table and accesses the alternate-key blocks on the primary system based on results indicated by frond alternate-key location table entries.